In the Claims

The claim listing is as follows:

1. (Previously presented) A metering device comprising:

a material reservoir containing coating material;

a metering element, operationally attached for engaging a compressible material line, thereby causing a selectable peristaltic effect upon the coating material in said compressible material line, wherein said material reservoir directly communicates with the compressible material line; and

a material dispensing end, moveably secured to said metering element, for movement with said metering element during dispensing.

- 2. (Original) The metering device of claim 1, further comprising a control system operatively attached to said metering element, where said control system allows for control of the selectable peristaltic effect and said metering element.
- 3. (Original) The metering device of claim 1, further comprising a base, said base adapted so that the compressible material line is positioned between said base and said metering element.
- 4. (Original) The metering device of claim 3, wherein said base comprises a depression for engagement with said compressible material line.
- 5. (Original) The metering device of claim 1, wherein said metering element is rotatable.

- 6. (Original) The metering device of claim 1, wherein said metering element is slidable.
- 7. (Original) The metering device of claim 1, wherein said metering element has an arcuate portion.
- 8. (Original) The metering device of claim 7, wherein said metering element is a cylinder.
- 9. (Original) The metering device of claim 8, wherein said metering element is a cylinder of a plurality of diameters.
- 10. (Original) The metering device of claim 1, further comprising the compressible material line.
- 11-12. (Cancelled).
- 13. (Currently amended) The metering device of claim 12 1, wherein said material dispensing end is a dispensing needle.
- 14. (Currently amended) The metering device of claim 12 1, further comprising a robotic positioning system operatively attached to said material dispensing end.
- 15. (Original) The metering device of claim 1, wherein said peristaltic effect causes a dispensing of a unit of material from said metering device.

16. (Original) The metering device of claim 15, wherein the quantity of said unit of dispensed material is within 2% of a desired quantity of material to be dispensed.

17. (Previously presented) A precision metering system comprising:

a material delivery unit including:

a material reservoir, a material dispensing end, a compressible material line connecting said material reservoir and said material dispensing end, and a valve, wherein the material dispensing end is moveably secured into the material delivery unit for movement with the material delivery unit during operation;

a base; and

a metering element, engaging most of the length of said compressible material line between said metering element and said base, thereby creating a peristaltic effect upon a material in said compressible material line, said peristaltic effect thereby causing a precision dispensing of a unit of material from said material dispensing end, wherein said unit of material is selectable.

18. (Original) The precision metering system of claim 17, further comprising a control system operatively attached to said metering element, wherein said control system allows for control of said metering element.

19. (Original) The precision metering system of claim 17, further comprising a robotic positioning system operatively attached to said material dispensing end.

- 20. (Original) The precision metering system of claim 17, wherein said metering element is a cylinder.
- 21. (Original) The precision metering system of claim 17, wherein said metering element is rotatable.
- 22. (Original) The precision metering system of claim 17, wherein said metering element is slidable.
- 23. (Currently amended) A metering device comprising:

a metering element that is one of translationally slidable and rotatable and meters to within +/- 2% of a desired quantity of a material to be dispensed; [,] operationally attached for engaging most of the

a length of a compressible material line positioned beneath said metering element, and upon said sliding or rotation of said metering element causes a peristaltic effect upon [a] the material located within said compressible material line further causing a precision dispensing of a unit of the material from said device.

- 24. (Withdrawn) The metering device of claim 23, further comprising a control system operatively attached to said metering element, wherein said control system allows for user programmability of said metering element.
- 25. (Original) The metering device of claim 23, further comprising a base, wherein said compressible material line is positioned between said metering element and said base.

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26. (Original) The metering device of claim 23, wherein said metering element is selectable.

27-28. (Canceled)

29. (Currently amended) The metering system of claim 19 27, wherein said robotic positioning system includes a gantry frame.

30. (Canceled)

31. (Previously presented) A method of precision dispensing of material comprising: providing a device which includes a base and a metering element;

providing a reservoir;

inserting the reservoir into the device;

positioning a compressible material line between said metering element and said base;

moving one of said base, metering element, compressible material line, or a combination thereof, thereby causing a peristaltic effect upon a material within said compressible material line; and

dispensing a precise unit of material from said device.

32. (Original) The method of claim 31, wherein said metering element is a rotatable cylinder.

- 33. (Original) The method of claim 31, wherein said precise unit of material dispensed is within 2% of a quantity desired to be dispensed.
- 34. (New) The metering device of claim 23 further comprising:
 - a pinch roller of said metering element;
- a carriage block attached to said pinch roller wherein the length of the compressible line is positioned beneath said pinch roller of said metering element; and
- a ball screw shaft that operationally engages and translationally moves said carriage block of said metering element.